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 FACIL: 50-387 Susquehanna Steam Electric Station, Unit 1, Pennsylvania 05000387
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 LLOYD, H. Pennsylvania Power & Light Co.
 STANLEY, H. G. Pennsylvania Power & Light Co.
 RECIP. NAME RECIPIENT AFFILIATION

SUBJECT: LER 92-015-01: on 920903, identified that Kaowool fire rated barriers were not inspected during performance of insp surveillance. Caused by procedural inadequacy & personnel error. Surveillance procedures will be revised. W/921106 ltr.

DISTRIBUTION CODE: IE22T COPIES RECEIVED: LTR 1 ENCL 1 SIZE: 5
 TITLE: 50.73/50.9 Licensee Event Report (LER), Incident Rpt, etc.

NOTES: Maxwell, G

05000387 /

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EXTERNAL:	EG&G BRYCE, J.H	2		2			L ST LOBBY WARD	1		1		
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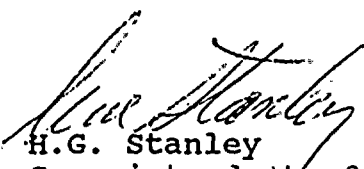
November 6, 1992

U.S. Nuclear Regulatory Commission
Document Control Desk
Washington, DC 20555

SUSQUEHANNA STEAM ELECTRIC STATION
LICENSEE EVENT REPORT 92-015-01
FILE R41-2
PLAS -543

Docket No. 50-387
License No. NPF-14

Attached is Licensee Event Report 92-015-01. This report is being made pursuant to 10CFR50.73(a)(2)(i) as a condition prohibited by Technical Specifications in that additional fire rated barriers were discovered to be installed outside of the specified design requirements. These conditions were discovered during our on-going inspection of fire rated barriers. Procedure revisions are being developed and rework of the barriers are underway.


H.G. Stanley
Superintendent of Plant - Susquehanna

HL/mjm

cc: Mr. T. T. Martin
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12004:

9211120045 921106
PDR ADCK 05000387
S PDR

Handwritten initials/signature

LICENSEE EVENT REPORT (LER)

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 50.0 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE RECORDS AND REPORTS MANAGEMENT BRANCH (P-530), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

FACILITY NAME (1) Susquehanna Steam Electric Station - Unit 1	DOCKET NUMBER (2) 0 5 0 0 0 3 8 7	PAGE (3) 1 OF 0 4
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TITLE (4)
Fire Barriers Not Surveilled and Not Installed Per Specification

EVENT DATE (5)			LER NUMBER (6)			REPORT DATE (7)			OTHER FACILITIES INVOLVED (8)		
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	MONTH	DAY	YEAR	FACILITY NAMES		DOCKET NUMBER(S)
0	9	0	3	9	2	9	2	2	SSES - Unit 2		0 5 0 0 0 3 8 8
0	9	0	3	9	2	9	2	2			0 5 0 0 0

OPERATING MODE (9) 1	THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11)									
POWER LEVEL (10) 1 0 1 0	20.402(b)	20.405(c)	50.73(a)(2)(iv)	73.71(b)						
	20.405(a)(1)(i)	50.38(c)(1)	50.73(a)(2)(v)	73.71(c)						
	20.405(a)(1)(ii)	50.38(c)(2)	50.73(a)(2)(vii)	OTHER (Specify in Abstract below and in Text, NRC Form 366A)						
	20.405(a)(1)(iii)	X 50.73(a)(2)(i)	50.73(a)(2)(viii)(A)							
	20.405(a)(1)(iv)	50.73(a)(2)(ii)	50.73(a)(2)(viii)(B)							
20.405(a)(1)(v)	50.73(a)(2)(iii)	50.73(a)(2)(ix)								

LICENSEE CONTACT FOR THIS LER (12)

NAME H. Lloyd, Jr. - Power Production Engineer	TELEPHONE NUMBER 7 1 7 5 4 2 1 3 9 1 7
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COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS

SUPPLEMENTAL REPORT EXPECTED (14)

YES (If yes, complete EXPECTED SUBMISSION DATE) NO

EXPECTED SUBMISSION DATE (15)	MONTH	DAY	YEAR

ABSTRACT (Limit to 1400 spaces, i.e., approximately fifteen single space typewritten lines) (16)

On September 3, 1992 with both Units in Condition 1, reviews being performed during NRC inspection 92-23 identified that Kaowool fire rated barriers were not inspected during performance of the inspection surveillance. All fire rated raceway wrap had previously been declared inoperable as outlined in LER 92-012-01. On October 9 and October 29, 1992, several discrepancies were discovered with regards to fire rated raceway wrap not meeting specified design requirements. These barriers had also previously been declared inoperable as mentioned above. The cause of the failure to identify these discrepancies was procedural inadequacy and personnel error. The cause of the installation discrepancies appears to be from initial installation errors. Drawing inaccuracies contributed to the Appendix R Deviation Request discrepancies. These conditions were determined to be reportable per 10CFR50.70(a)(2)(i)(B) as an operation prohibited by Technical Specifications in that required surveillances were not performed and required action statements were not entered. There were no safety consequences as a result of this condition. The subject surveillance procedure will be revised and personnel trained on the revision. The subject Fire Protection drawings as built configuration will be verified. The appropriate rework for the installation discrepancies will be determined and implemented appropriately.

LICENSEE EVENT REPORT (LER)
TEXT CONTINUATION

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 60.0 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE RECORDS AND REPORTS MANAGEMENT BRANCH (P-530), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

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TEXT (If more space is required, use additional NRC Form 366A's) (17)

DESCRIPTION OF EVENT

On September 3, 1992 with Unit 1 in Condition 1 at 100% power and Unit 2 in Condition 1 at 92% power, reviews being performed during NRC Inspection 92-23 (Appendix R, Thermo-Lag) identified that Kaowool fire rated barriers were not inspected during performance of the Eighteen Month Fire Barrier Inspection. All fire rated raceway wrap (conduits, cable trays, etc.) had previously been declared inoperable as outlined in LER 92-012-00 and 92-012-01 and the required Technical Specification action statements entered and compensatory measures taken.

On September 4, 1992, several discrepancies were discovered with regards to Kaowool fire rated barriers not meeting the requirements of the installation specifications. In addition, two discrepancies regarding our Fire Protection Review Report Appendix R Deviation Requests were discovered. One discrepancy concerned the lack of automatic suppression in a fire zone that contained Kaowool Fire rated raceway wrap and the other related to fire barrier endurance rating. A Nonconformance Report was generated to document the discrepancies. These barriers had also been previously declared inoperable as mentioned above, thus no additional compensatory measures were necessary.

An inspection of all fire rated barriers was initiated as committed to in Revision 0 of this report. Additional discrepancies were discovered on October 9 and October 29, 1992 where fire rated wrap was installed outside of the specified design requirements. These discrepancies involved the lack of a seal at a raceway floor penetration and the lack of conduit wrap not extending the required distance out from two wrapped junction boxes. An additional Nonconformance Report was generated to document these discrepancies.

CAUSE OF EVENT

The cause of the failure to inspect the Kaowool barrier and failure to previously identify installation discrepancies during the surveillance was procedural inadequacy and personnel error. The procedure required inspection of fire barriers but did not specify any particular type barrier. Those personnel performing the inspection thought that only Thermo-Lag barriers required inspection.

The exact cause of the installation discrepancies discovered on September 4, 1992, and those discovered on October 9 & 27, 1992, could not be determined, but they appear to be initial

LICENSEE EVENT REPORT (LER)
TEXT CONTINUATION

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construction installation discrepancies. Concerning the deviation request discrepancies, the drawings utilized as the basis for the requests contained inaccuracies in that they reflected Thermo-Lag as the installed barrier but, in fact, the installed barrier was Kaowool.

Our initial evaluation determined that the cause of the failure to identify the discrepancies discovered on October 9 & 29, 1992 during previous surveillance inspections was procedural inadequacy and personnel error. Should this determination change following final cause determination, an update will be submitted.

REPORTABILITY/ANALYSIS

The failure to inspect the Kaowool Fire rated barriers, as well as the installation discrepancies for these Fire barriers were determined to be reportable per 10CFR50.73(a)(2)(i)(B) as an operation prohibited by the Plant Technical Specifications. Failing to surveil the Kaowool Fire Rated Barriers constituted an operation prohibited by Tech Specs in that the required surveillance testing was not performed. The fire barrier installation discrepancies constituted an operation prohibited by Tech Specs in that the required Tech Spec action statements were not entered. There were no safety consequences as a result of this condition. At the time of discovery, fire watches were already in place and fire detection operability had already been verified. Given this compensatory action to quickly detect a fire, the likelihood of fire damage to both divisions of safety related equipment is minimal.

This condition would not have been more significant at any other operating condition.

In accordance with guidance provided in NUREG 1022, Supplement 1, item 14.1, and 10CFR50.4(d), the required submission date for this report was determined to be November 9, 1992.

CORRECTIVE ACTION

The fire barrier inspection surveillance procedures will be revised to more clearly state the inspection requirements and personnel performing the inspections will be trained on the revised procedure. This corrective action is applicable to the initial discrepancies of September 4, 1992 as well as those of October 9 & 29, 1992.

LICENSEE EVENT REPORT (LER)
TEXT CONTINUATION

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 50.0 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE RECORDS AND REPORTS MANAGEMENT BRANCH (P-530), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

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TEXT (If more space is required, use additional NRC Form 366A's) (17)

Concerning the installation and drawing discrepancies, our Nuclear Engineering Fire Protection group is pursuing several paths. The subject Fire Protection drawing as built configuration will be verified. The appropriate rework for the installation discrepancies will be determined and an action plan for implementation will be developed. These activities are in parallel with our ongoing efforts concerning Thermo-Lag testing (re: LER 92-012-00 & 92-012-01) and evaluation for continued use.

ADDITIONAL INFORMATION

Failed Component Identification: N/A

Previous Similar Events:

Although there have been previous events involving fire barriers and missed surveillances, there were none caused by misinterpretation of procedures and initial construction deviations.